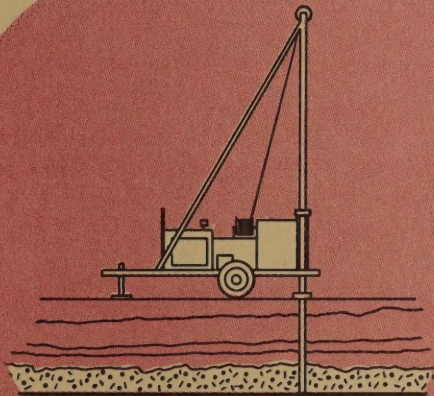
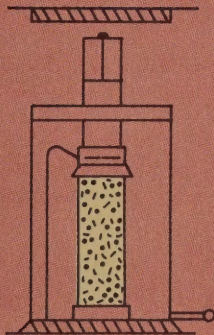


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

RAYMOND T. SCHULER, COMMISSIONER



SOIL MECHANICS  
BUREAU



TEST WELL REPORT  
CONTRACT FILD 74-10  
I-88-1; OTSEGO CO.  
SCHENEVUS-WORCESTER  
P.I.N. 9357.11-111

February 1975





DATE February 20, 1975

MEMORANDUM  
DEPARTMENT OF TRANSPORTATION

SUBJECT FILD 74-10, TEST WELLS: I-88-1, SCHENEVUS-WORCESTER  
OTSEGO COUNTY, P.I.N. 9357.11-111  
TRANSMITTAL OF WATER QUALITY TEST RESULTS

FROM L. H. Moore, Director, Soil Mechanics Bureau, Room 102, Bldg. 7  
By: E. M. Moody *Edward M. Moody*  
TO R. H. Edwards, Facilities Design Subdivision, Room 404, Bldg. 5 ✓  
Attn: J. J. Ryan

cc J. K. Connors, Regional Director, Region 9

Attached is a memorandum prepared by Mr. Alex Yatsevitch, Senior Engineering Geologist, containing his observations during the progression of the test wells on the above contract. The water quality test results on samples taken from each well at the conclusion of each pumping test are also attached.

EMM:RGS:SAS

Encl.

NYSDOT  
Library  
50 Wolf Road, POD 34  
Albany, New York 12232

February 20, 1953

FILE NO. 100-100000-100000  
MEMPHIS COUNTY, TENNESSEE  
TRANSMISSION OF WATER QUALITY TEST RESULTS

1. H. Moore, Director, State Highway Bureau, Room 100, State  
for E. H. Moore, Jr., Director, State Highway Bureau, Room 100, State  
E. H. Moore, Director, State Highway Bureau, Room 100, State  
Date: 2. 2. 1953

1. E. Moore, National Highway Bureau, Room 100

Attached is a memorandum submitted by the State Highway Bureau, dated  
February 19, 1953, regarding the transmission of water quality test  
results of the road water in the State Highway Bureau. The water  
quality test results are being taken from each well at the  
location of each pump-out station and are being submitted.

WYB:WYB  
Enc.

WYB:WYB  
100-100000-100000  
100-100000-100000  
100-100000-100000



MEMORANDUM  
DEPARTMENT OF TRANSPORTATION

DATE February 20, 1975  
SUBJECT FIELD 74-10  
TEST WELLS: I-88-1  
SCHENEVUS-WORCESTER  
OTSEGO COUNTY, PIN 9357.11-111  
FROM A. Yatsevitch, Senior Engineering Geologist  
TO E. M. Moody, Associate Soils Engineer ✓

Two six inch diameter test wells were drilled at this proposed rest area site by the Tully Drilling Co., Inc., of Poyntelle, Pa., under the supervision of Mr. Robert Pierce, E.I.C., to whom Engineering Geologists of this Bureau provided technical geologic assistance.

The first well to be drilled, Well No. 2 as indicated on the plans, was started on December 4, 1974 and on December 5, 1974 was progressed to approximately 64 feet. The overburden consisted of a sequence of sands, gravels and till with an estimated total potential yield of approximately 2 GPM. No indication of water was present at the till-bedrock interface. Subsequently, it was decided that development of the overburden would not be sufficiently productive and the casing was seated into the rock to 68 feet and the well advanced into the rock. The bedrock, a sequence of black shales and "dirty" sandstone yielded indications of water at three horizons. The most productive zone yielding an estimated 14 GPM at 215 feet raised the combined total yield of the bedrock in this well to approximately 17 GPM and the hole was terminated at a total depth of 220 feet. The well was developed by air from the rotary drilling rig, followed by disinfection and pumping prior to the step drawdown test initiated on December 9, 1974.

On December 6, 1974 the drilling rig was moved to the second location, Well No. 1 as indicated on the plans, and that hole initiated. The overburden, to a depth of 66 feet at which bedrock was encountered, consisted of a sequence of gravel, much silt, fine sand and medium to fine sand just above the bedrock. This last sand layer was the only overburden indicating presence of water. Potential yield was estimated at approximately 2 GPM and it was decided to progress the hole into the bedrock. The casing was driven to approximately 70 feet and drilling continued. The bedrock in this hole is generally similar in type and characteristics to that of the previous hole with the notable exception that only two

•





TULLY DRILLING COMPANY, INC.  
LOG OF WELL  
E. M. Moody  
February 20, 1975  
Page Two

relatively minor water bearing zones were encountered - one at 71 feet and another at 190 feet. The combined yield as estimated at 220 feet was approximately 5 GPM. Drilling was continued in anticipation of a greater yield but was terminated at 260 feet with no additional water zones being encountered. The well was developed by compressed air from the drilling rig and disinfected prior to the step drawdown test.

Copies of the driller's logs and results of step drawdown tests for both wells are attached.

Samples of water were taken from each well at the conclusion of each pumping test and submitted to the New York State Department of Health, Division of Laboratories and Research at 99 Central Avenue, Albany, for water quality analysis on December 12, 1974. Unfortunately, the laboratory was in the process of moving and reorganizing at that time and for various reasons the water quality analyses were not completed and released until February 13, 1975. The results of the water quality analyses are attached.

Tamper-proof caps were installed on the well casing pending receipt of water quality analyses and future utilization of the wells.

AY:BR  
Attachments



relatively minor water bearing zones were encountered - one at 71 feet and another at 120 feet. The combined yield as estimated at 230 feet was approximately 3 GPM. Drilling was continued in anticipation of a greater yield but was terminated at 260 feet with no additional water zones being encountered. The well was developed by compressed air from the drilling rig and disinfected prior to the step drawdown test.

Copies of the driller's logs and results of step drawdown tests for both wells are attached.

Samples of water were taken from each well at the conclusion of each pumping test and submitted to the New York State Department of Health, Division of Laboratories and Research at 29 Central Avenue, Albany, for water quality analysis on December 12, 1974. Unfortunately, the laboratory was in the process of moving and reorganizing at that time and for various reasons the water quality analyses were not completed and received until February 12, 1975. The results of the water quality analyses are attached.

Temper-proof caps were installed on the well casing pending receipt of water quality analyses and future utilization of the wells.

AY:BR  
Attachments



Poyntelle, Pa.

## Well No.

Address

Recorded at Roseton 88, Northbound in Alameda County, State of N. Y.

Drilling started November 9, 1974 Date Test Hole Completed December 9, 1974

Total depth to bottom of Well 270' Diameter Test Hole 6"

stands when not pumping \_\_\_\_\_ feet \_\_\_\_\_ inches from the surface of the ground

80 opinion of Test

Well Developed by air from Drill to yield 6 6 P.M.

**K TYPE OF**  
**G USED**

Other? 111

WELLS: I-S3-1; OTSEGO CO.

EVANS-WORCESTER

Dr. TULLY DRILLING COMPANY

## Driller

LOG OF WELL

Well No. 1  
 Location 1/2 mi. S. of ...  
 County ...  
 State ...  
 Date ...  
 Drilled by ...  
 Depth to bottom of well ...  
 Depth from surface of ground ...

Depth in feet	Formation and Remarks	Depth in feet	Formation and Remarks
0-10	...	10-20	...
20-30	...	30-40	...
40-50	...	50-60	...
60-70	...	70-80	...
80-90	...	90-100	...
100-110	...	110-120	...
120-130	...	130-140	...
140-150	...	150-160	...
160-170	...	170-180	...
180-190	...	190-200	...
200-210	...	210-220	...
220-230	...	230-240	...
240-250	...	250-260	...
260-270	...	270-280	...
280-290	...	290-300	...
300-310	...	310-320	...
320-330	...	330-340	...
340-350	...	350-360	...
360-370	...	370-380	...
380-390	...	390-400	...
400-410	...	410-420	...
420-430	...	430-440	...
440-450	...	450-460	...
460-470	...	470-480	...
480-490	...	490-500	...
500-510	...	510-520	...
520-530	...	530-540	...
540-550	...	550-560	...
560-570	...	570-580	...
580-590	...	590-600	...
600-610	...	610-620	...
620-630	...	630-640	...
640-650	...	650-660	...
660-670	...	670-680	...
680-690	...	690-700	...
700-710	...	710-720	...
720-730	...	730-740	...
740-750	...	750-760	...
760-770	...	770-780	...
780-790	...	790-800	...
800-810	...	810-820	...
820-830	...	830-840	...
840-850	...	850-860	...
860-870	...	870-880	...
880-890	...	890-900	...
900-910	...	910-920	...
920-930	...	930-940	...
940-950	...	950-960	...
960-970	...	970-980	...
980-990	...	990-1000	...

Drilled by ...  
 Date ...  
 TULLY DRILLING COMPANY, INC.  
 WOODSTOCK, N.Y.



# TULLY DRILLING Co., Inc.

POYNTELLE, Pa. 18453

State of New York Dept. of Transportation  
Contract No. FILD74-10 HC 89507  
Well # 1 Pump Test

THIS IS  
WELL NO. 1  
ON THE PLANS.

Time	G.P.M.	Water Level	Drawdown	Water
6:30A.M. To 8:00A.M.		Circulating Water		
8:00A.M.	3	34'0"		Cloudy
8:15 "	4	36'0"	2'	"
8:30	5	38'0"	4'	"
8:45	5	43'5"	8'5"	"
9:00	6	46'6"	11'6"	"
9:15	5	46'6"	11'6"	"
9:30	5	46'6"	11'6"	"
10:00	5	48'2"	14'2"	"
10:30	5	48'2"	14'2"	"
11:00	5	48'2"	14'2"	"
11:30	5	48'8"	14'8"	"
12:00 Noon	5	48'8"	14'8"	"
12:30P.M.	5	48'8"	14'8"	"
1:00	5	48'1"	14'1"	"
1:30	5	48'1"	14'1"	"
2:00	5	48'1"	14'1"	"
2:30	5	48'1"	14'1"	"
3:00	5	48'1"	14'1"	"
3:30	5	48'6"	14'6"	"
4:30	5	51'3"	17'3"	"
5:30	5	52'6"	18'6"	Clear
6:30	5	52'6"	18'6"	"
7:30	5	52'6"	18'6"	"
8:30	5	52'6"	18'6"	"
9:30	5	52'6"	18'6"	"

. PUMP SET AT 260 ' FOR TEST. A.Y.





NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION  
(PAGE 1 OF 1)

ACCESSION NO: 08717 YR/MO/DAY/HR SAMPLE REC'D: 74/12/11/13

REPORTING LAB: 01 CENTRAL AVE. LAB

PROGRAM: 820 NYS DEPT. OF TRANSP.

STATION (SOURCE) NO:

DRAINAGE BASIN: 06 NY GAZETTEER NO: 3873 COUNTY: OTSEGO

COORDINATES: DEG ' "N, DEG ' "W

COMMON NAME INCL SUBMITTED: WORCESTER

EXACT SAMPLING POINT: TEST WELL #1 PIN 9357.11

TYPE OF SAMPLE: 12 WATER, DRILLED WELL

DAY/HR OF SAMPLING: FROM 00/00 TO 12/10/06

REPORT SENT TO: CO (2) RO (0) LPHE (0) LHO (0) FED (0) CHEM (0)

PARAMETER	UNIT	RESULT	NOTATION
02800 STANDARD PLATE COUNT 48 HM		1.	LT
02900 COLIFORM BACT MF COL/100ML		1.	LT

DATE COMPLETED: 12/16/74

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226

SUBMITTED BY: HUFFMAN

ATT: WM. P. HOFFMAN

Rec'd. 12/17/74 72.4





NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION

(PAGE 1 OF 2)

ACCESSION NO: 06787 YR/MO/DAY/HR SAMPLE REC'D: 74/12/12/11

PORTING LAB: 10 GRIFFIN LAB

GRAM: 820 NYS DEPT. OF TRANSP.

TION (SOURCE) NO:

RANGE BASIN: 06 NY GAZETTEER NO: 3873 COUNTY: OTSEGO

DINATES: DEG ' "N, DEG ' "W

WON NAME INCL SURVISED: WORCESTER

OT SAMPLING POINT: TEST WELL NO 1 PIN 9357.11

YE OF SAMPLE: 12 WATER, DRILLED WELL

DAY/HR OF SAMPLING: FROM 00/00 TO 12/10/06

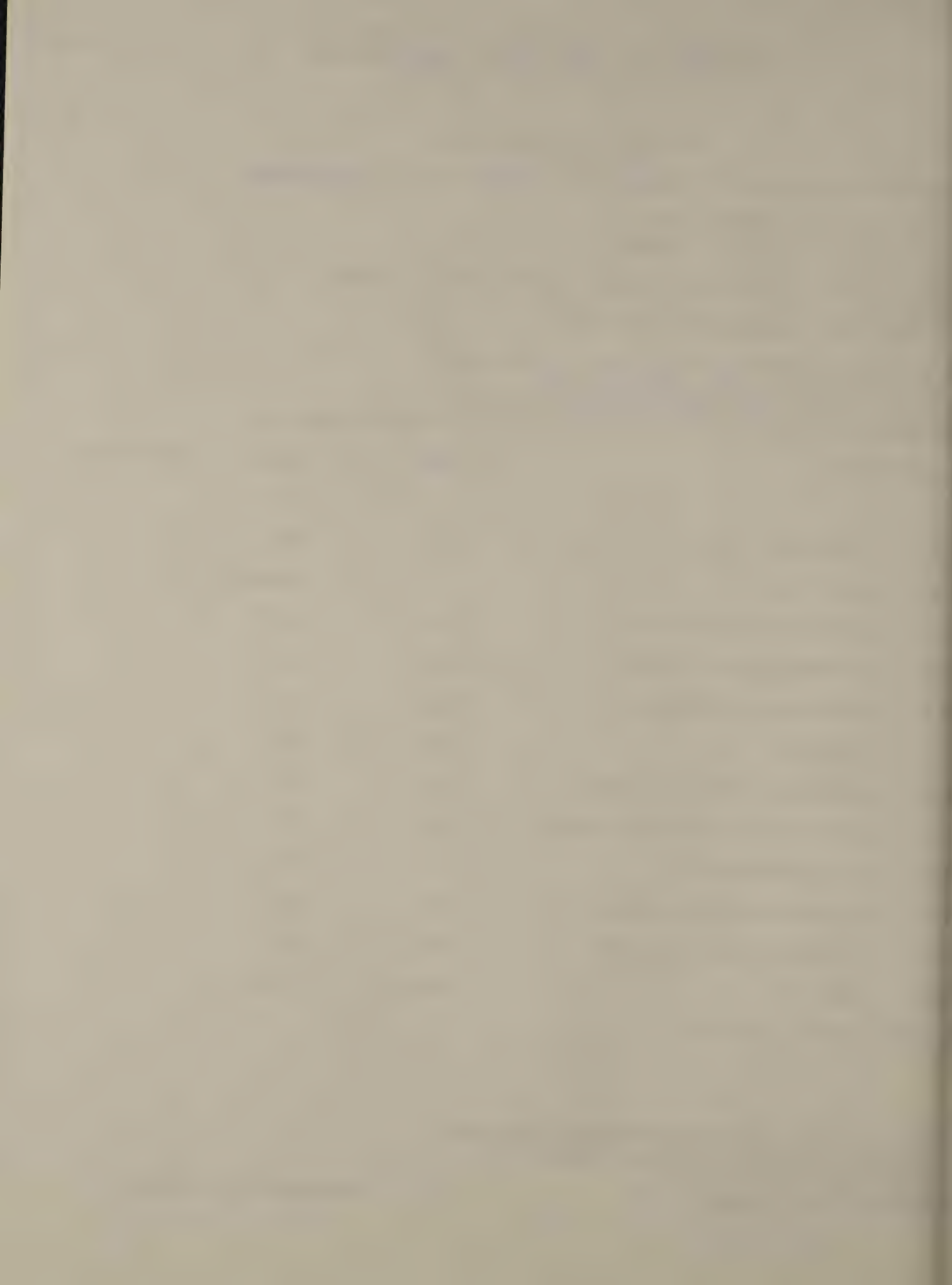
ERT SENT TO: CO (1) RD (0) LPHE (1) LHO (0) FED (0) CHEM (0)

PARAMETER	UNIT	RESULT	NOTATION
0000 TURBIDITY, J.T.U.		36.	
0000 ODOR, HOT		1.0040	
0501 NITROGEN, AMMONIA AS N	MG/L	0.02	
0709 NITROGEN, NITRITE AS N	MCG/L	4.	
0901 NITROGEN, NITRATE AS N	MG/L	1.6	
0901 CHLORIDES	MG/L	4.	
0901 HARDNESS, TOTAL AS $\text{CaCO}_3$	MG/L	43.	
0501 ALKALINITY, MTH OR AS $\text{CaCO}_3$	MG/L	24.	
0900 PH (LABORATORY)		6.7	
0901 NITROGEN, KJELDAHL, INCL. AMM	MG/L	1.9	
0601 CHEMICAL OXYGEN DEMAND	MG/L	4.	LT
1001 IRON	MG/L	0.08	

ATE COMPLETED: 2/13/75

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226

ATTENTION OF: HOFFMAN





NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION

(PAGE 2 OF 2)

ACCESSION NO: 06787 YR/MO/DAY/HR SAMPLE REC'D: 74/12/12/11

REPORTING LAB: 10 GRIFFIN LAB

PROGRAM: 820 NYS DEPT. OF TRANSP.

STATION (SOURCE) NO:

DRAINAGE BASIN: 06 NY GAZETTEER NO: 3873 COUNTY: OTSEGO

COORDINATES: DEG ' "N, DEG ' "W

COMMON NAME INCL SURVISED: WORCESTER

EXACT SAMPLING POINT: TEST WELL NO 1 PIN 9357.11

TYPE OF SAMPLE: 12 WATER, DRILLED WELL

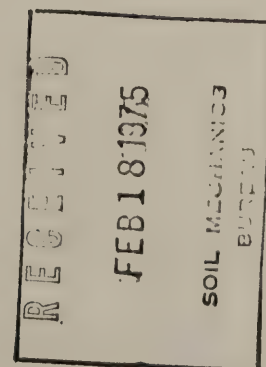
DAY/HR OF SAMPLING: FROM 00/00 TO 12/10/06

REPORT SENT TO: CO (1) RO (0) LPHE (1) LHO (0) FED (0) CHEM (0)

PARAMETER	UNIT	RESULT	NOTATION
01201 MANGANESE	MG/L	0.04	
01701 SODIUM	MG/L	3.8	
0300 ODOR, COLD		1.004a	
0101 PHOSPHATES, TOTAL AS P	MG/L	0.08	
01401 POTASSIUM	MG/L	1.2	
10001 TOTAL DISSOLVED SOLIDS	MG/L	93.	
10201 HARDNESS, CALCIUM AS CaCO3	MG/L	28.	
0100 COLOR (TRUE)		0.	

ANALYSIS COMPLETED: 2/13/75

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226



ATTENTION OF: HOFFMAN





Poyntelle, Pa.

# LOG OF WELL

Well No.

Test No. 2

W. for

Address

ca. c at

iii

started

Date Test Hole Completed

County, State of

Total depth to bottom of Well

### Diameter Test Hole

inches from the surface of the ground

## Depth To Bottom of Strata

## Formation Found Each Stratum

### Thickness of Stratum

## Depth To Bottom of Strata

### Formation Found Each Stratum

O'-64'

Overburden Soil and Gravel

6" Well casing left in place

64'-220'

Layered Gray shale and sandstone

Water Keins

2 P.M. at 71'

1 P.M. at 170'

14 gpm at 215'

is an opinion of Test

CK TYPE OF  
IGUSED

**Reverse  
Rotary ✓  
Cable Tool  
Wash  
Other?**

Other?  
ILD 74-13; 100-86811.111

BEST WELLS: 1.33-1; OTSEGO CO.

CHIENEVUS-WORCESTER

CONTR: TULLY DRILLING COMPANY

## Driller





State of New York Dept. of Transportation  
 Contract No. FILD 74-10 HC 89507  
 Well # 2 Pump Test

THIS IS  
 WELL NO. 2  
 ON THE PLANS

Time	G.P.M.	Water Level	Drawdown	Water
12:30 A.M.-		Circulating Water		
1:30 A.M.				
1:30 A.M.-		Standing		
2:30 P.M.	5	34' 4"	1' 4"	Cloudy
2:45	5	37' 2"	4' 2"	"
3:00	5	37' 2"	4' 2"	"
3:20	5	37' 4"	4' 4"	"
3:30	5	37' 4"	4' 4"	"
3:40	8	40' 2"	7' 2"	Clear
3:55	8	40' 2"	7' 2"	"
4:10	8	41' 3"	8' 3"	"
4:25	8	41' 3"	8' 3"	"
4:35	11	45'	12'	"
4:50	11	45'	12'	"
5:00	13	45'	12'	"
5:15	13	45'	12'	"
5:30	15	45'	12'	"
5:45	15	45'	12'	"
6:00	15	45'	12'	"
6:30	12	45'	12'	"
6:00	12	45'	12'	"
6:30	12	45'	12'	"
7:00	12	44'	11'	"
7:30	12	42' 6"	9' 6"	"
8:00	12	42' 6"	9' 6"	"
8:30	12	43'	10'	"
9:00	12	43' 6"	10' 6"	"
9:30	12	44'	11'	"
10:00	12	44'	11'	"
10:30	12	44' 6"	11' 6"	"
11:00	12	45'	12'	"
11:30	12	45'	12'	"
12:00 A.M.	12	45' 6"	12' 6"	"
12:30	12	45' 6"	12' 6"	"
1:00	12	46'	13'	"
1:30	12	46'	13'	"
2:00	12	46'	13'	"

PUMP SET AT 200' FOR TEST. 27 y.





NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION

(PAGE 1 OF 1)

ACCESSION NO: 08718 YR/MO/DAY/HR SAMPLE REC'D: 74/12/11/12

REPORTING LAB: 01 CENTRAL AVE. LAB

ADDRESS: 820 NYS DEPT. OF TRANSP.

LOCATION (SOURCE) NO:

WATER BASIN: 06 NY GAZETTEER NO: 3873 COUNTY: OTSEGO

COORDINATES: DEG ' "N, DEG ' "W

LOCATION NAME INCL SUBMITTED: T. WORCESTER

TEST SAMPLING POINT: TEST WELL NO.2 PIN 9357.11

TYPE OF SAMPLE: 12 WATER, DRILLED WELL

DURATION OF SAMPLING: FROM 00/00 TO 12/10/05

TESTS SENT TO: CO (2) RO (0) LPHE (0) LHO (0) FED (0) CHEM (0)

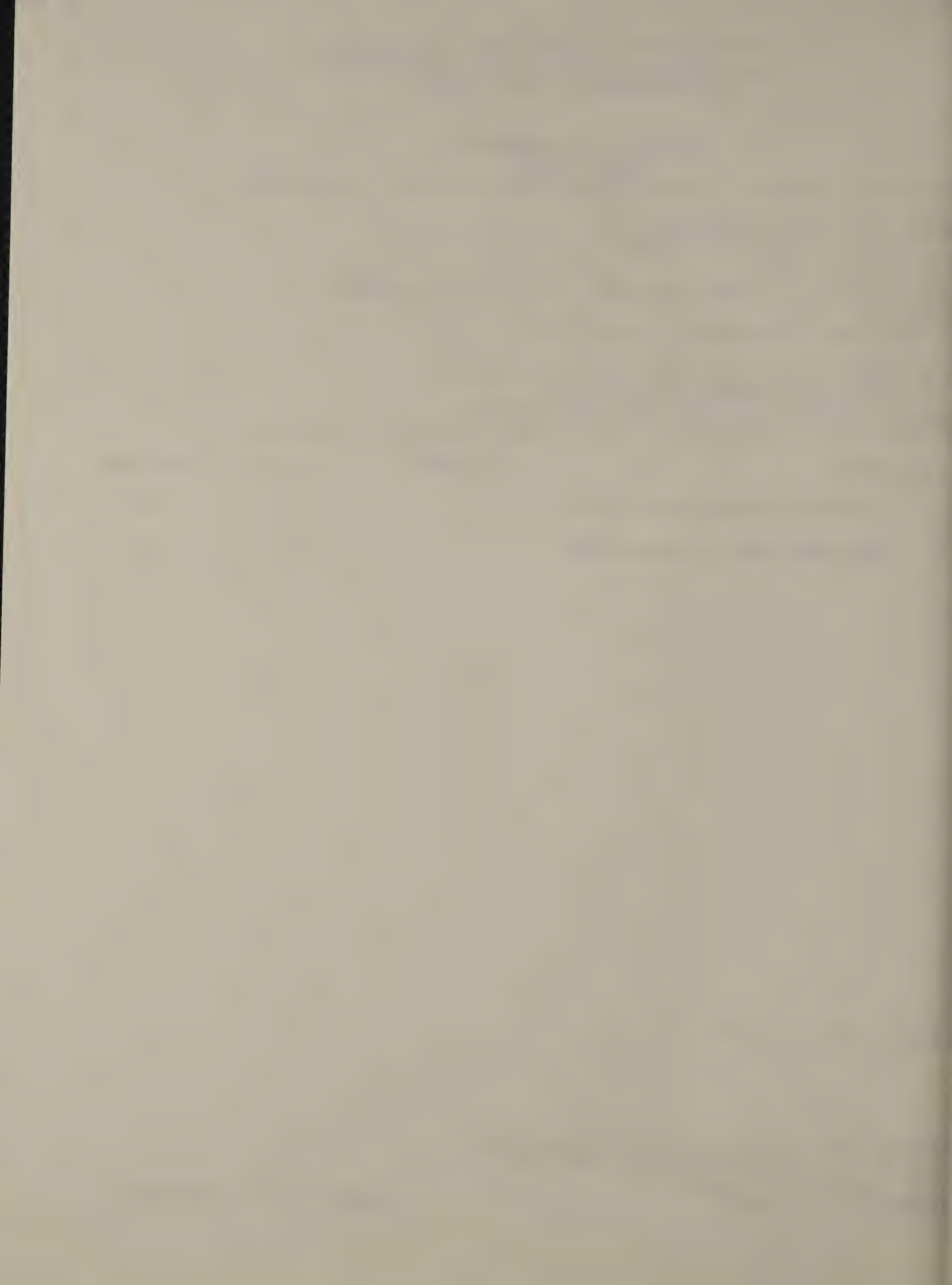
PARAMETER	UNIT	RESULT	NOTATION
2000 STANDARD PLATE COUNT 48 HH		1.	LT
2000 COLIFORM BACT MF COL/100ML		1.	LT

ANALYSIS COMPLETED: 12/16/74

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226

SUBMITTED BY: HUFFMANN

REC'D. 2/17/79 J.Y.



NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION  
(PAGE 1 OF 2)

LABORATORY ACCESSION NO: 06786 YR/MO/DAY/HR SAMPLE REC'D: 74/12/12/11

REPORTING LAB: 10 GRIFFIN LAB

PROGRAM: 820 NYS DEPT. OF TRANSP.

STATION (SOURCE) NO:

DRAINAGE BASIN: 06 NY GAZETTEFR NO: 3873 COUNTY: OTSEGO

COORDINATES: DEG ' "N, DEG ' "W

COMMON NAME INCL SURVISED: WORCESTER

EXACT SAMPLING POINT: TEST WELL NO 2 PIN 9357.11

TYPE OF SAMPLE: 12 WATER, DRILLED WELL

DAY/HR OF SAMPLING: FROM 00/00 TO 12/10/05

REPORT SENT TO: CO (1) RO (0) LPHE (1) LHO (0) FED (0) CHEM (0)

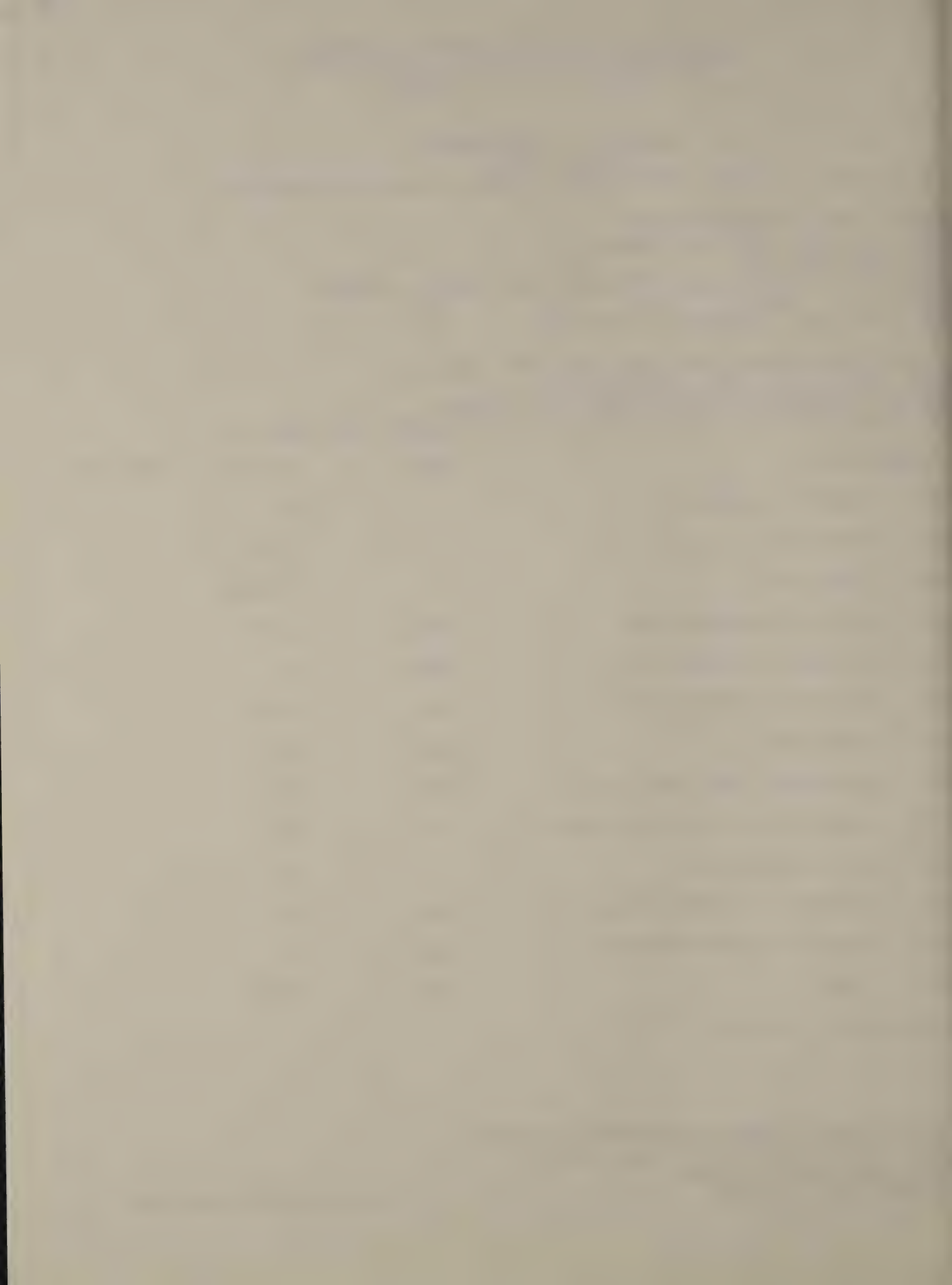
PARAMETER	UNIT	RESULT	NOTATION
00100 COLOR (APPARENT)		17.	
00200 TURBIDITY, J.T.U.		8.8	
00300 ODOR, HNT		2.002 <sub>A</sub>	
00501 NITROGEN, AMMONIA AS N	MG/L	0.02	
00709 NITROGEN, NITRITE AS N	MG/L	2.	
00801 NITROGEN, NITRATE AS N	MG/L	1.6	
01001 CHLORIDES	MG/L	6.	
01101 HARDNESS, TOTAL AS CaCO <sub>3</sub>	MG/L	39.	
01501 ALKALINITY, MTH OR AS CaCO <sub>3</sub>	MG/L	23.	
01900 PH (LABORATORY)		6.6	
03401 NITROGEN, KJELDAHL, INCL. AMM	MG/L	1.4	
03501 CHEMICAL OXYGEN DEMAND	MG/L	4.	
00001 IRON	MG/L	0.14	

DATE COMPLETED: 2/13/75

DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226

ATTENTION OF: HOFFMAN





NEW YORK STATE DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES AND RESEARCH  
ENVIRONMENTAL HEALTH CENTER

RESULTS OF EXAMINATION  
(PAGE 2 OF 2)

UR ACCESSION NO: 06786 YR/MO/DAY/HR SAMPLE REC'D: 74/12/12/11

REPORTING LAB: 10 GRIFFIN LAB

PROGRAM: 820 NYS DEPT. OF TRANSP.

STATION (SOURCE) NO:

DRAINAGE BASIN: 06 NY GAZETTEER NO: 3873 COUNTY: OTSEGO

COORDINATES: DEG ' "N, DEG ' "W

COMMON NAME INCL SURVISED: WORCESTER

EXACT SAMPLING POINT: TEST WELL NO 2 PIN 9357.11

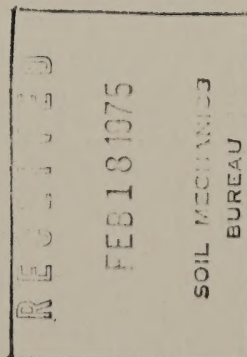
TYPE OF SAMPLE: 12 WATER, DRILLED WELL

W/DAY/HR OF SAMPLING: FROM 00/00 TO 12/10/05

REPORT SENT TO: CO (1) RO (0) LPHE (1) LHO (0) FED (0) CHEM (0)

PARAMETER	UNIT	RESULT	NOTATION
00201 MANGANESE	MG/L	0.02	LT
00701 SODIUM	MG/L	4.1	
00300 ODOR, COLD		2.007,10	
07101 PHOSPHATES, TOTAL AS P	MG/L	0.03	
00401 POTASSIUM	MG/L	0.7	
02001 TOTAL DISSOLVED SOLIDS	MG/L		SR
01201 HARDNESS, CALCIUM AS CaCO3	MG/L	35.	

DATE COMPLETED: 2/13/75



DEPUTY CHIEF ENGINEER, TECHNICAL SERVICES  
NYS DEPT. OF TRANSPORTATION, BLDG. 7A  
1220 WASHINGTON AVENUE  
ALBANY, N.Y. 12226

ATTENTION OF: HOFFMAN







**01043**



LRI